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Maslenikov, B.M.

AUTHORS:

Maslenikov, B.M., Romanova, L.V.

32-11-23/60

TITLE:

Spectral Half-Volume Determination of the Boron Content in Ores and Minerals (Spektral'noye polukolichestvennoye opredeleniye bora v rudakh i mineralakh)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 11, pp. 1327-1328 (USSR)

ABSTRACT:

The application of spectral analysis for the determination of the boron content in carbonate- and silicate rocks as also in tourmaline has hitherto been impossible, and therefore the endeavor is made in this work to elaborate a suitable method. The generator alternating current arc "FL-39" and the spectrograph "MCh-22" with 3-lens condenser system and an intermediate diaphragma of 3.2 mm were used, as also the films "special", type II. For the visual comparison of the blackenings of the boron lines the spectroprojector "MCh-1" was used. The electrodes were made of electrolytic copper (with openings through which the powder of the samples can be introduced). For the production of standard samples ("etalons") the pure minerals of the aforementioned rocks, viz. "ascharite" and "panderomite" were used. In the second case quartz tourmaline rock in form of quartz sand and datolite were used. The boron content in ascharite, panderomite, and datolite was determined by calculation according to the formulas of these minerals. The boron

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Spectral Half-Volume Determination of the Boron Content in
Ores and Minerals

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content in quartz tourmaline rock was determined by chemical analysis. In order to increase the spectral sensibility when determining the boron content electrolyte copper electrodes of 6 mm diameter were used, which were ground off up to 5 mm on their ends. Also the vaporization vessel was extended to a diameter of 4 mm. Determination of the boron content was made easier also by projecting the lower electrodes on the aperture of the intermediate diaphragm (3.2 mm) and by the selection of the arc span (2.5 mm). Time of exposure: 60 sec.; amperage: 5 A. It was found that the presence of potassium and lithium in the sample (up to 2%) diminishes the intensity of the boron line. An iron content of more than 5% renders the determination of boron more difficult because the spectral lines of both are too near each other. Further research work is necessary in this respect. The absolute sensibility of the method described is near about 0.001% boron content. There are 2 figures.

ASSOCIATION: State Scientific Research Institute for Mining -Chemical Raw Materials
(Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-khimicheskogo syr'ya)

AVAILABLE:
Card 2/2 Library of Congress

68267

SOV/81-59-10-34623

5.5310

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 116 (USSR)

AUTHORS: Maslennikov, B.M., Romanova, L.V., Portnova, V.N.TITLE: Determination of Selenium by the Spectral Method

PERIODICAL: Tr. Gos. n.-i. in-ta gorno-khim. syr'ya, 1958, Nr 4, pp 239-241

ABSTRACT: A method has been described for the semi-quantitative determination of Se in ores with the excitation of the spectrum in an a-c arc at 8 a and with evaporation of the substances from the opening of the Cu-electrode. On the butt of the Cu-electrode of 5 mm in diameter an opening 3 mm deep and 4 mm in diameter is drilled, into which the sample is placed. The arc gap of 3 mm is placed at the slit of the medium-sized ISP-22 spectrograph. At a slit width of 0.07 mm and an exposure of 2 min the sensitivity of Se determination is 0.01% from the line 2039.89 Å. The line Te 2039.79 Å does not impede the analysis, but the presence of Sb in the concentration of > 0.5% causes considerable obstructions. The spectra are photographed on "spectral" plates of type 2, sensitized by immersion for 2 min in a freshly-prepared 5% ethanol solution of Na salicylate. The dried plates are kept up to 4 - 5 months without change. Plates of type 3 are not suitable

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Determination of Selenium by the Spectral Method

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for determination of Se. The standards are prepared on CaCO_3 base or on sulfurous ore with the introduction of elemental Se. The method of the photometry of the lines is not indicated.

G. Kibisov

Card 2/2

KNUBOVETS, R.G.; MASLENNIKOV, B.M.

Adsorption of flotation reagents by minerals studied by infrared
spectroscopy. Dokl. AN SSSR 164 no.2:387-389 S '65.
(MIRA 18:9)

1. Submitted March 9, 1965.

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2. USSR (600)
4. Geology, Stratigraphic - Far East
7. New data on the stratigraphy of the Upper Paleozoic deposits of the southern part of the Far East. Mat. Geol. Inst no. 8, 1948.
9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

AKODIS, Mikhail Mironovich, doktor tekhn.nauk, prof.; MASLENNIKOV, Daler Semenovich, assistent

Increase in the efficiency of systems for testing switches using synthetic networks. Izv. vys. ucheb. zav.; elektromekh. 6 no.3: 390-399 '63. (MIRA 16:5)

1. Zavenuyushchiy kafedroy tekhniki vysokikh napryasheniy Ural'skogo politekhnicheskogo instituta (for Akodis). 2. Ural'skiy politekhnicheskiy institut (for Maslenikov).

(Electric switchgear—Testing)

AKODIS, M.M., doktor tekhn.nauk, prof.; MASLENNIKOV, D.S., inzh.

Decrease in the switching distortions of a current in switchgear testing systems using synthetic circuits. Izv. vys. ucheb. zav.; energ. 6 no.10:22-27 O '63. (MIRA 16:12)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova.
Predstavlena kafedroy tekhniki vysokikh napryazheniy.

AKODIS, M.M., doktor tekhn. nauk; MASLENNIKOV, D.S., inzh.

Increase in the power rating of systems for testing
switches using synthetic circuits. Elektrotehnika 34
no.10:33-37 0 '63. (MIRA 16:11)

MASLENNIKOV, D. S.; BRONSHTEYN, A. M.; BRON, O. B.; BUTKEVICH, G. V.; ZAKHAROV, S. N.;
KAPLAN, V. V.; AKODIS, M. M.; RUDNYY, V. M.

"Some Problems of Constructing High Power Circuit-Breakers."

report submitted for Intl Conf on Large Electric Systems, 20th Biennial Session,
Paris, 1-10 Jun 64.

MASJENNIKOV, D.S., inzh.; OSOTOV, V.N., inzh.

Determination of short-circuit current components and circuit power coefficient in testing the switching capability of commutating apparatus. Elektrichesstvo no.12:68-70 D '64.
(MIRA 18:12)

1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova.

MASLENNIKOV, D.S.

From the history of the revolutionary movement of petroleum
workers. Neftianik 7 no.11-4-6 N°62. (MIRA 16:6)

(Baku—Strikes and lockouts)

MASLENNIKOV, D.S., arkitektor; Prinimali uchastiye: GOSTINTSEVA,
starshiy tekhnik-meteorolog; ABRAMOVA, V.S., starshiy tekhnik-
chertezhnik; IVANOV, V.K., maketchik-fotograf.

Sun exposure of building in block no.9 in Novyye Cheremushki.
Issl.po mikroklim.nasel.nest i zdan.i po stroi.fiz. no.l:34-53 '62.
(MIRA 15:9)
(Moscow--city planning)

MASLENNIKOV, D.S., arkitektor

Recommendations for providing optimum conditions of insolation
in building development. Issl.po mikroklim.nasel.mest i zdan. i
po stroi.fiz. no.2:53-73 '62. (MIRA 16:6)
(Sunshine) (City planning)

MASLENNIKOV, F. A.

Author: Maslenikov, F. A.

Title: From Stakhanovite-Metallurgists research. (Из опыта стахановцев-металлургов.)

City: Moscow

Publisher: All-Union Pedagogical textbook pub. establishment

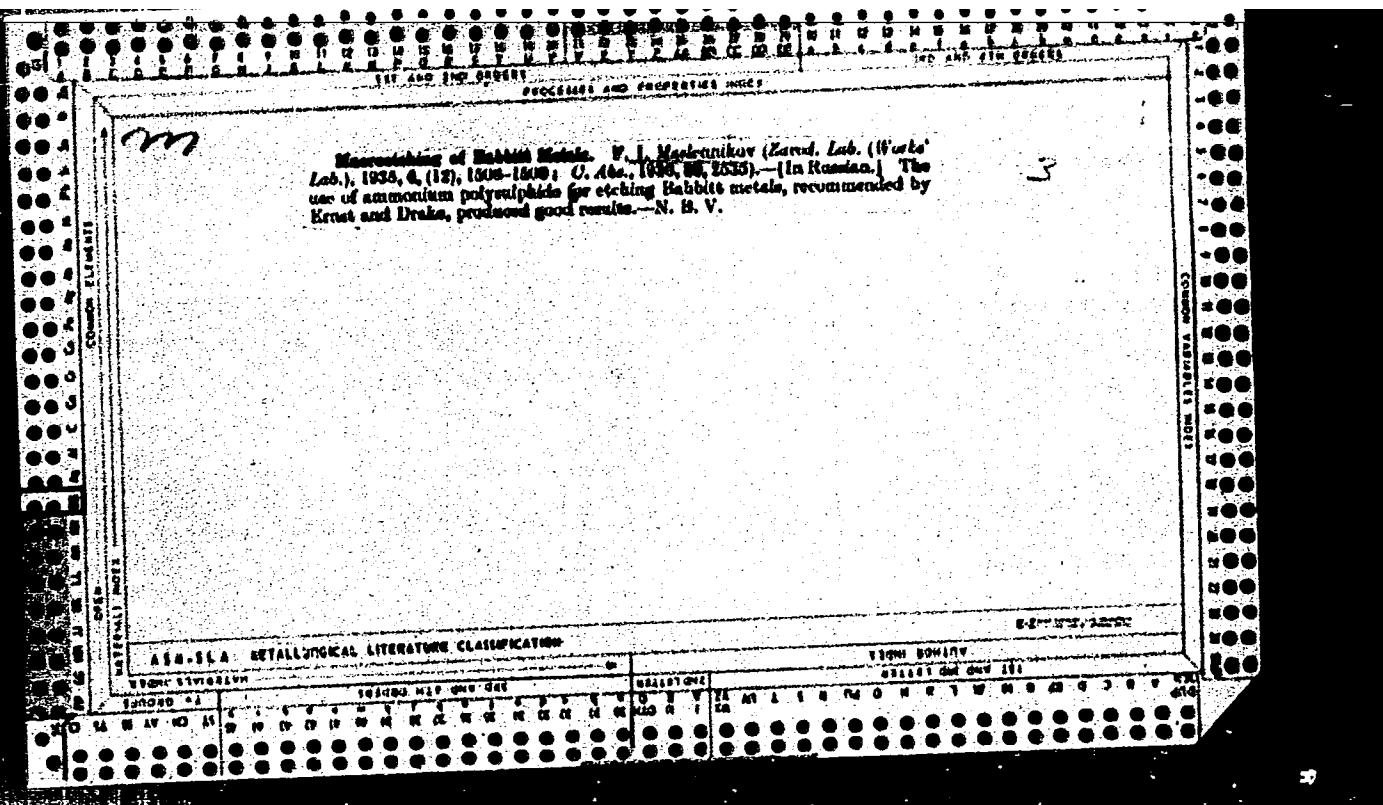
Date: 1949

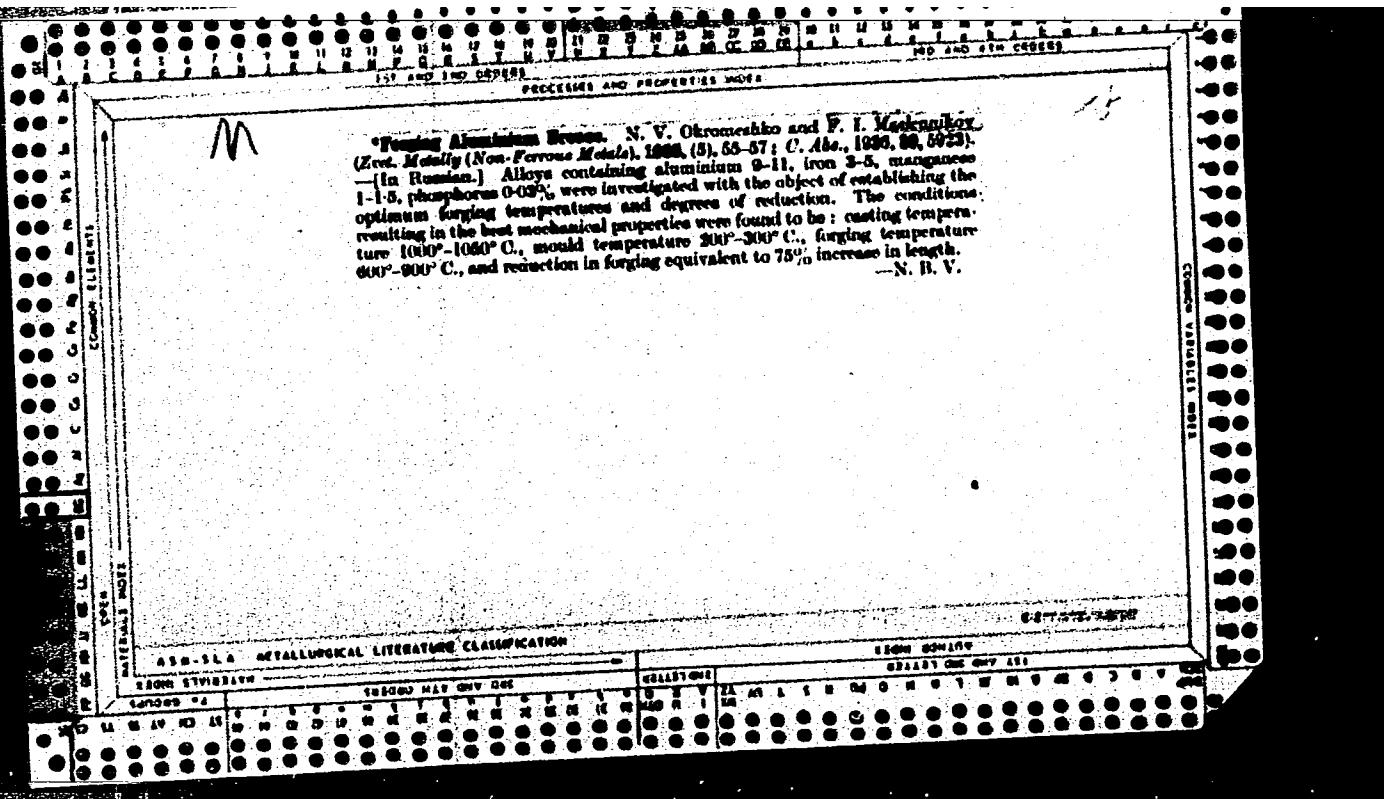
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Source: Monthly List of Russian Acquisitions, Vol. 3, No. 11, p. 758

Call No: Tm 642.1913

Subject: 1. Mineral Industries, Russia. 2. Stakhanov Movement.





MASLENNIKOV, F. I.

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TW690.N268

MASLENNIKOV, F. I., kandidat tekhnicheskikh nauk, dotsent; PASTERMAK
T. A., inzhener, redaktor; MODEL', B. I., tekhnicheskiy redaktor;
MATVEYeva, Ye. N., tekhnicheskiy redaktor.

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(Gaevoi, A.F.) (Grebenkin, V.G.)

MASLENNIKOV, F.P.

Asphalt or cement draw bars. From. stroi. 39 no. 12:58 '60.
(MIRA 13:12)
(Roofing concrete)

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D '59. (MIRA 13:3)

1.Nachal'nik veterinarnogo otdela Oblsel'khozupravleniya Moskovskaya oblast' (for Aksanova). 2.Direktor oblastnoy vетбаклаборатории, Moskovskaya oblast' (for Maslennikov) 3.Vsesoyuznyy nauchno-issledovatel'skiy institut zhivotnovodstva (for Gavrilova).
(Antibiotics)

MASLENNIKOV, G., brigadir montazhnikov

The trade union represents us. Sov.profsoiuzy 7 no.24:
13-14 D '59. (MIRA 12:12)

1. Trest "Mosstroy" No.3.
(Construction workers)

MASLENNIKOV, G. N.

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MASLENNIKOV, Georgiy Pavlovich.

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SVESHNIKOV, D.A.; MASLENNIKOV, G.P.

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wires. Zav.lab. 22 no.10:1245-1247 '56. (MLRA 10:5)

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(Metals--Fatigue)
(Testing machines)

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MASLENNIKOV, G. S.

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1. Is khirurgicheskogo otdeleniya I Gorodskoy astrakhanskoy
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(CALCULI, URINARY)

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MASLENNIKOV, G.S.

Automatic line for cleaning bottles and boxes at the Leningrad
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MASLENNIKOV, G.V., deputat

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38-39 F '61.
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1. Chlen Ispolkomia Mossoveta.
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Truda, brigadir; NIKONOV, Mikhail Ivanovich; POLJENEVA,
V.I., inzh., red.

[Council of construction brigade foremen; from the
experience of the construction organization of Section
37-38 in the Southwestern District of Moscow] Sovet bri-
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What prevents normal operation of electric filters. Stroj.mat. 3 no.3:12-
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MASLENNIKOV, I. I.

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MASLENNIKOV, I.I., assistent.

Balance measurement in the active layer by means of a
pyranometer. Sbor.nauch.trud. KazGMI no.14:259-261 '56.

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Increasing precision in measuring insolation intensity [with
summary in English]. Izv. Astrofiz. inst. AN Kazakh.SSR 5
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MASLENNIKOV, I. M. TSITOVSKIY, B. I.

High production pneumatic devices. Avt. trakt. prom. no. 11:19-24 N '53.
(MLRA 6:11)

1. Moskovskiy avtosavod im. Stalina. (Pneumatic tools)

ANUR'YEV, V.I.; KALASHNIKOV, F.F.; MASLENNIKOV, I.M.; SAZONOV, A.S.,
red. izd-va; TIKHANOV, A.Ya., tekhn. red.

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mashinostroyitelia. [By] V.I. Anur'ev, F.F. Kalashnikov, I.M. Mas-
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MASLENNIKOV, I. M.

"Experimental determination of heat radiation characteristics in radiation heating of bodies in a ray-transparent medium."

Report presented at the 1st All-Union Conference on Heat- and Mass- Exchange,
Minsk, BSSR, 5-9 June 1961

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Electronic device for controlling the level of powdery materials.
TSement 28 no.3;20 My-Je '62. (MIRA 15:7)
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ANDRIYANOV, P.A.; MASLENNIKOV, I.M.

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TSIRLIN, A.M.

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Methodology of the experimental determination of the statistical characteristics of random processes in industrial control systems. Trudy MIKHM 25:102-112 '63. (MIRA 17:6)

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of bodies and articles by temporary characteristics. Trudy
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ANDRIYANOV, P.A.; MASLENNIKOV, I.M.

Mathematical modeling of heat exchangers as a controlled system
with distributed parameters. Inzh.-fiz. zhur. 7 no.4:32-39
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MASLENNIKOV, I.N., inzhener.

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(Road construction)

MASLENNIKOV, I. N inzhener; SEMENOV, S., inzhener.

Shortcomings in designing cement concrete road surfaces. Avt.dor
18 no.8:19-20 D '55. (MIRA '9:5)
(Roads, Concrete)

MASLENNIKOV, Ivan Nikolayevich; IVANOV, F.M., redaktor; MAL'KOVA, N.V.,
tekhnicheskiy redaktor

[Construction of concrete roads] Postroika tsementobetonnykh dorog.
Moskva, Nauchno-tekhn.izd-vo avtotransp.lit-ry, 1957. 60 p.
(Roads, Concrete) (MIRA 10:7)

LUKASHENKO, E.Ye.; KRAMNIK, V.Yu.; GARMATA, V.A.; SERGIYENKO, S.N.;
Prinimali uchastiye: KARGIN, V.M., inzh.; KISELEV, O.G., inzh.;
PETRUN'KO, A.N., inzh.; MASLENNIKOV, I.P., inzh.

Developing and mastering the method of thermochemical reduction of
titanium tetrachloride by magnesium in retorts without inserted
reaction sleeves. Titan i ego splavy no.6:23-26 '61. (MIRA 14:11)
(Titanium--Metallurgy)

MASLENNIKOV, I. [P.]

Protecting vegetable plants from diseases and pests Moskva
Moskovskii rabochii, 1949. 143 p.

MASLENNIKOV, I.P.

The bulb colworm in garlic and measures for combating it.
Trudy probl. i tem.soveshch. no.3:232-237 '54. (MIRA 8:5)

1. Gribovskaya ovozhchnaya selektsionnaya stantsiya.
(Garlic—Diseases and pests) (Nematoda)

USSR

G

Abs Jour : Ref Zhur - Biologiya, No 22, 1958, No 99582
Author : Maslenikov, I.P.
Inst : Not given
Title : Measures for Combatting Bulb Nematodes.
Orig Pub : Sad i ogorod, 1957, No.5, 27-28
Abstract : No abstract

Card 1/1

MASLENNIKOV, I.P., kand. sel'skokhoz. nauk

Testing the effect of poisons on pests of vegetable crops. Zashch.
rast. ot vred. i bol. 4 no.2:33-34 Mr-Ap '59. (MIRA 16:5)

(Insecticides)

(Vegetables—Diseases and pests)

MASLENNIKOV, I.P.; OREKHOVSKAYA, M.V.

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1. Gribovskaya ovoshchnaya selektsionnaya opytnaya stantsiya.
(Pesticides)

MASLENNIKOV, I.P., kand.sel'skokhoz.nauk

Spinach leaf miner. Zashch. rast. ot vred. i bol. 6 no.4:26-27
Ap '61. (MIRA 15:6)

1. Gribovskaya ovoshchnaya selektsionnaya stantsiya, pochtovoye
otdeleniye Akulovo, Moskovskoy obl.
(Moscow Province--Beets--Diseases and pests)
(Leaf miners)

USTINOV, V.S.; ARUTYUNOV, E.A.; MASLENNIKOV, I.P.; TSELUYKO, I.M.;
KULIKOV, L.P.; [REDACTED] MOL'SKAYA, I.Ya.;
TITUKHINA, L.V.

Increasing magnesium recovery during the remelting of a
condensate of magnesium metal and magnesium chloride.
TSvet. met. 37 no.11:75-78 N '64. (MIRA 18:4)

L 7990-66 ENT(m)/EPA(s)-2/EPP(n)-2/PMD(t)/EMD(u) JNP(c) JD/NW/JG
ACC NM AP5026531 SOURCE CODE: UR/0286/65/000/019/0071/0071

AUTHORS: Zuyev, M. N.; Tsooster, Ya. A.; Vaynshteyn, G. M.; Vlasov, V. A.; Ustinov, V. S.; Kisalev, O. G.; Magomedikov, I. P.; Kozanov, L. P.; Sharunova, O. N.; Yukalov, V. V.; Ivanov, A. B.

ORG: none

TITLE: A mixer furnace for remelting the condensate from titanium production.
Class 40, No. 175229 [announced by All-Union Scientific Research and Design Institute of Aluminum, Magnesium, and Electrode Industry, and by Dniper Titano-Magnesium Plant] (Vsesoyuznyy nauchno-issledovatel'skiy i proektnyy institut aluminiovevoy, magniyevoey i elektrodnoy preryashlennosti i Desprovitskii titanomagniyevyi zavod]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 71

TOPIC TAGS: physical metallurgy, metallurgical furnace, metallurgical industry, titanium

ABSTRACT: This Author Certificate introduces a mixer furnace for remelting the condensate from titanium production. The furnace consists of a melting chamber connected by a duct in its lower part to a mixer forehearth, and of electrodes for melting an inert salt (see Fig. 1). To simplify the process and to reduce the losses of magnesium and magnesium chloride, the mixer is provided with a suspended metallic cap for collecting liquid magnesium and for protecting it from reacting with gases and the lining. A liquid seal ~~protects~~ excess pressure of inert gas (argon) over the melt

Card 1/2

VPC: 669,721,411,621,745,35

L 7998-66

ACC NR: AP5026531

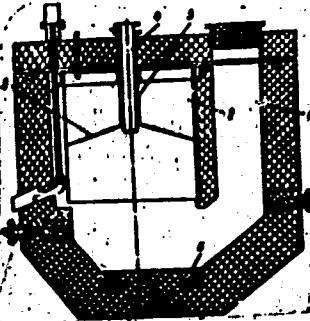


Fig. 1. 1- melting chamber;
2- mixer furnace; C
3- suspended metallic cap;
4- pipe for drawing off
magnesium; 5- liquid
seal; 6- auxiliary
electrodes

during discharging of the charge and removing the molten products. The bottom of the bath is provided with auxiliary electrodes for preventing the formation of crust.
Orig. art. has: 1 figure.

SUB CODE: IR/

SCHEM BATH 16 March

Card 2/2

ALESENKO, V.G., gornyy inzh.; SAVVA, L.A., gornyy inzh.;
MASLENNIKOV, I.S., gornyy inzh.; SITNIKOV, I.Ye., gornyy inzh.

Interchamber and level pillar caving with a powerful blast.
Gor. zhur. no.7:39-41 Jl '61. (MIRA 15:2)
(Blasting)

GLAZUNOV, V.S., gornyy inzh.; IVANOV, N.D., gornyy inzh.; MASLENIKOV,
I.S., gornyy inzh.; OVIANNIKOV, M.P., gornyy inzh.

Using a self-propelled platform in upraising through hard rocks.
Gor.shur. no.231-34 P '63. (MIRA 16:2)
(Mining machinery)

ALEKSEYEV, V.V.; DOBRONRAVOVA, A.O.; AZAROV, A.Ya.; MASLENNIKOV, I.Ya.; RUDNEV, L.M., retsenzent; KHOREV, B.S., retsenzent; KRISHTAL', L.I., red.; USENKO, L.A., tekhn. red.

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(Railroads—Guides)

W/5
662.316
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82 P. Illus. Diagrams, Port. Tables
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(Cables) (Cranes, derricks, etc.) (MLRA 9:7)

MASLENNIKOV, K.M., kand.tekhn.nauk, dotsent.

Designing crane steel cables. Vest.mash. 37 no.10:13-21 0 '57.
(MIRA 10:11)

(Cables)

MASLENNIKOV, K.M., kand.tekhn.nauk

Using the method of limit conditions in designing crane cables.
[Trudy] MVTU no.74:9-37 '58. (MIRA 11:10)
(Cranes, derricks, etc.) (Cables)

MASLENNIKOV, K.N.

Twisting of polyamide staple fibers. Khim.volok no.4:59-62 '62.
(MIRA 15:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna.

(Nylon)

MASLENNIKOV, K.N.

Properties and processing of "Prelana" polyakrylonitrile fibers.
Tekst.prom. 22 no.4:87-89 Ap '62. (MIRA 15:6)

1. Rukovoditel' gruppy tekstil'noy pererabotki Vsesoyuznogo
nauchno-issledovatel'skogo instituta iskusstvennogo volokna
(VNIIV).

(Germany, East—Textile fibers, Synthetic)

MASLENNIKOV, K.N.

Production of modified elastic filaments. Khim. volok.
no.4:53-57 '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusst-
vennogo volokna.

MASLENNIKOV, K.N., nauchnyy sotrudnik; ZAYTSEVA, Ye.V., nauchnyy sotrudnik;
KANTER, D.TS., nauchnyy sotrudnik; OBUKHOVA, R.N., nauchnyy sotrud-
nik; BULANOVA, I.G., nauchnyy sotrudnik; GORDEYEV, N.A.; SURNINA,
N.M.

"Xylital 0-15" preparation for the avivage of viscose staple fi-
bers produced by the cotton spinning method. Tekst.prom. 24 no.1:
40-43 Ja '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna (for Maslennikov, Zaytseva, Kanter, Obukhova, Bulanova).
2. Glavnyy inzh. Yakhromskoy pryadil'no-tkatskoy fabriki (for Gor-
deyev).
3. Zaveduyushchiy proizvodstvennoy laboratoriye Yakhrom-
skoy pryadil'no-tkatskoy fabriki (for Surnina).

MASLENNIKOV, K.N.; MAKHOVA, R.A.

Response to the article "Classification of textile yarns with
a modified structure." Tekst. prom. 24 no.4:77-78 Ap '64.
(MIRA 17:6)

1. Rukovoditel' gruppy tekstil'noy pererabotki Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Maslennikov). 2. Rukovoditel' gruppy tekstil'noy tekhnologicheskoy laboratorii Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Makhova).

MASLENNIKOV, K.N.; ZAYTSEVA, Ye.V., starshiy nauchnyy sotrudnik

Use of avivage preparations in the manufacture of viscose staple. Tekst. prom. 24 no.5:13-15 My '64 (MIRA 18:2)

1. Rukovoditel' gruppy tekstil'noy pererabotki Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Maslennikov). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (for Zaytseva).

MASLENNIKOV, K.N.

Production of spring yarn. Khim. volok. no.3144-46 '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

MASLENNIKOV, K.N.; PIKOVSKAYA, O.G., starshiy nauchnyy sotrudnik; SURKOVA, V.I., mladshiy nauchnyy sotrudnik; AGAFONOVA, L.L., mladshiy nauchnyy sotrudnik

Avivage preparations for polyvinyl alcohol fibers. Tekst.
prom. 25 no.9:29-31 S.'65. (MIRA 18:10)

1. Rukovoditel' gruppy tekstil'noy pererabotki Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Maslenikov). 2. Laboratoriya otdelki i krasheniya Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Pikovskaya, Agafonova). 3. Gruppa tekstil'noy pererabotki Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Surkova).

1. GORBACHEV, G. T. and MASLENNIKOV, K. V.
2. USSR (600)
4. Paper-Making Machinery
7. Automatic regulator of the beating of pulp in hollanders. Bum.prom. no. 10, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

MASLENNIKOV, K.V.; GOMCHAROV, N.A., nachal'nik bumazhnogo tsekha.

New developments in the production of pulp for condenser paper.
Bum.prom. 30 no.12:20-21 D '55. (MIRA 9:3)

1. Glavnnyy inzhener bumazhnoy fabriki "Kommunar" (for Maslennikov)
(Woodpulp industry)

MASLENNIKOV, L.A.

Machine equipped with liftable bath used for testing radiator
hermeticity. Rats. i izobr. predl. v stroi. no.5:68-69 '58.
(MIRA 11:6)
(Testing machines) (Radiators)

MASLENNIKOV, L.A., inzh.

New pipe-cutting machine. Mont. i spets.rab.v stroi. 22 no.10:
26 O '60. (MIRA 13:9)

1. Vsesoyuznyy zaochnyy inzhenerno-stroitel'nyy institut.
(Pipe cutting--Equipment and supplies)

MASLENNIKOV, L.I.

A highly effective method of utilizing the energy of casinghead
gas of oil gushers. Vest. AN Kazakh.SSR 12 no.2:95 P '56.
(Gas, Natural) (Petroleum engineering) (MIRA 9:6)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001032720020-4

MACHENNIKOV, I.N., kaptan 2-go ranga zapasa

The Panama Canal. Mar.abor. 18 no.3186-88 Mr. 165.

(MIRA 18:8)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001032720020-4"

AUTHORS:

Kolosov, A.A., Maslennikov, L.N.,
Myasnikov, L.L.

54-10-2-4/16

TITLE:

The Stabilization of the Frequency of the Quartz Generator by
Means of a Spectral Line (3,3) N¹⁴H₃ [Stabilizatsiya chastoty
kvartsevogo generatora posredstvom spektral'noy linii (3,3)N¹⁴H₃]

PERIODICAL:

Vestnik Leningradskogo Universiteta, Seriya fiziki i
khimii, ..., 1958, Vol. 10 Nr 2, pp. 38-42 (USSR)

ABSTRACT:

In the present paper the method worked out by the authors for the stabilization of the frequency of a quartz generator by means of the microwave of absorption in gaseous ammonia is described. In order to stabilize the quartz generator the microabsorption line N¹⁴H₃ (3-3) at a pressure of 10⁻² mm mercury column was chosen. The application of gaseous ammonia is justified by the fact that the line (3-3) is well known and is easily accessible within the radiofrequency range. Besides, it is of high intensity and can therefore easily be observed in the small absorbing gas cells. Thanks to the exterior fields, the displacement of the spectral line is quite insignificant at normal conditions, and the insta-

Card 1/3

The Stabilization of the Frequency of the Quartz Generator by Means of a Spectral Line (3,3) N¹⁴H₃

54-10-2-4/16

bility of the order of 10^{-10} caused by it can be disregarded. Modern methods make it possible to obtain great stability of the shape of the line. For the purpose of stabilization a scheme of the automatic adjustment of the frequency of the quartz generator was used (fig. 1). The following factors influence the operational stability of the scheme: 1.) Stability of the shape of the line. 2.) Stability of the amplification coefficients of the amplifiers. 3.) Starting stability of the multivibrators. 4.) Modification of the shape of the modulating signal. 5.) Modification of the feed voltage. The stability of the shape of the line depends on the pressure in the gas cell (table 1). As already mentioned, the stability of the amplification coefficients of the amplifiers influences the operation of the scheme. If anode feed is modified by 10% a shift of 1 microsecond occurs, which corresponds to a deterioration of relative instability of up to $3 \cdot 10^{-7}$. The change of the shape of the line also manifests itself in the accuracy of operation of the system. If the frequency of the absorption line is more towards the end of the sinusoid, the line will change with respect to time. It was found by calculation that the most favorable point of operation is near the turning point of the sinusoid and that the permitted displacement is within the limits

Card 2/3

The Stabilization of the Frequency of the Quartz
Generator by Means of a Spectral Line (3,3) N¹⁴H₇

54-10-2-4/16

of $\pm 5^\circ$. In practice possible displacement was found to be greater, and deviations from the order $\pm 30^\circ$ are permitted. This may be explained by the fact that the modulating signal slightly differs from the sinusoid and has a longer linear part. In the case of a linear displacement by more than the half distance from the center, the recordings of the phase detector are modified by 0.2 V. There are 8 figures, and 1 table.

SUBMITTED: December 24, 1957

AVAILABLE: Library of Congress

1. Quartz generators—Frequency—Stabilization 2. Quartz crystals
—Applications

Card 3/3

SOV/112-57-9-18793

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9,
pp 107-108 (USSR)

AUTHOR: Kasprzhak, G. M., Maslennikov, L. V.

TITLE: Single-Phase Braking of a Wound-Rotor 3-Phase Induction Motor
(Odnofaznoye tormozheniye trekhfaznykh asinkhronnykh elektrodvigateley s
faznym rotorom)

PERIODICAL: Sb. stately Vses. zaoch. politekhn. in-ta, 1956, Nr 14, pp 98-114

ABSTRACT: Methods of mathematical analysis are presented for examining
induction-motor characteristics in a single-phase braking scheme. A compari-
son of calculated and experimental data is presented. This study was made with
a view to its application to MT series motors.

V.S.M.

Card 1/1

VESHENEVSKIY, S.N.; VORONETSKIY, B.B.; GUS'KOV, P.S.; KLIMOV, D.YI.;
MASLENNIKOV, L.V.; PASHKOV, M.V.; PETROV, I.I.; SOKOLOV, I.I.;
STEPANOV, Yu.V.; TUROVSKAYA, P.G.; KHECHUMAN, A.P.; TSEIN, V.S.;
SHTEYN, I.M.

Professor Konstantin Vasil'evich Urnov, 1907-1964; obituary.
Elektrичество no.3:91 Mr '65. (MIRA 18:6)

~~MASLETOV, M. mechanik~~

Indicator for automatic loom. From. keep. 12 no. 9:5 8 '58.
(MIRA 11:10)

1. Artel' im. Chapayeva, Poltava.
(Looms)

"APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001032720020-4

MASLENNIKOV, M.I., teknik

Reduction in personnel in fuel-handling sections. Energetik 6 no.1:8-
9 Ja '58.
(Coal handling).
(NIMA 11:8)

APPROVED FOR RELEASE: 07/12/2001

CIA-RDP86-00513R001032720020-4"

MASLENNIKOV, M.K.

Requirements of radio operators. Avtom., telem. i svyazi' 7
no.11:24 N. '63. (MIRA 16:12)

1. Starshiy elekromekhanik radiosvyazi Tikhoretskoy distantsii
signalizatsii i svyazi Severo-Kavkazskoy dorogi.

MISLENNINOV, M.M. (Voronezh)

Psychological conference in Tambov. Vop.psichol. no.6:185-
186 M.D. '62. (MIRA 16:2)
(Psychology—Congresses)

VASILENNIKOV, MIKHAIL MIKHAILOVICH

Sgoranie i detonatsiiia. Teoriia i protekanie v karbiuratornykh dvigateliakh.
Moskva, Gosmashmetizdat, 1933. 323 p., illus. (TSIAM. Trudy, no.8)

Summary in English.

Bibliography: p. 313-319.

Title tr.: Combustion and detonation. Theory and process in carburetor engines.
NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

MASLENNIKOV, MIKHAIL MIKHAILOVICH

Vlijanie temperatury i davlenija postupajushchego vozdukha na rabotu karbiuratornogo dvigatelia. Moskva, Glav. red. aviats. lit-ry, 1935.
108 p., illus. (TSIAM. Trudy, no. 15)

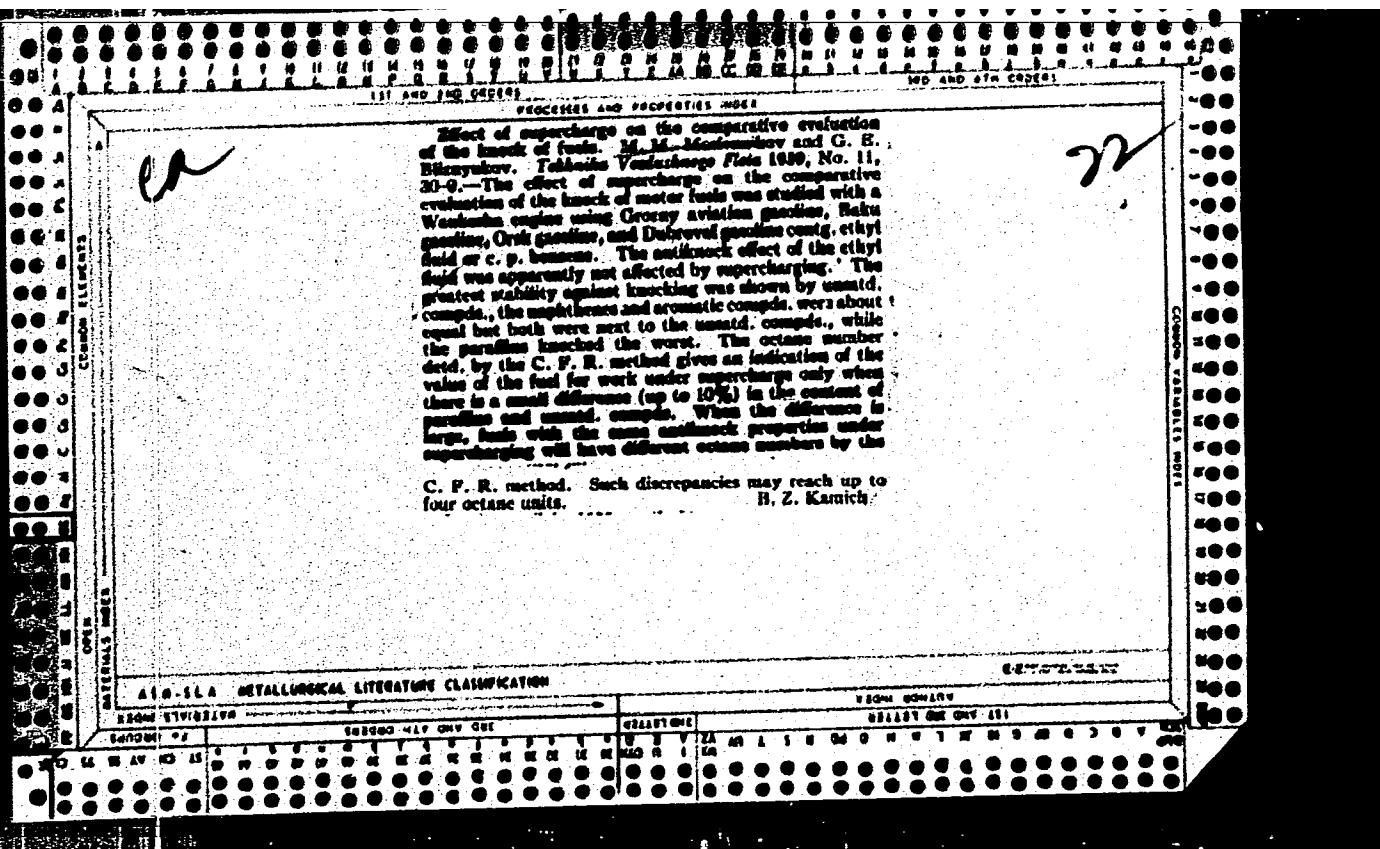
Summary in German.

Includes bibliography.

Title tr.: Effect of temperature and pressure of the intake air on the performance of carburetor engines.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.



MASLENNIKOV, MIKHAIL MIKHAILOVICH, A. G. PARTISKII, and A. S. FROLOV.

Raschet kilometrovых расходов горючего для самолета с магнетател'ными двигателями. Москва, 1940. 104 p. (TSAGI. Trudy, no.491)

Title tr.: Calculation of specific fuel consumption per km for aircraft equipped with booster fuel pumps.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955

MASLENIKOV., MIKHAIL MIKHAILOVICH, and B. D. ZALOGA.

Sravnenie antideetonatsionnykh svoistv topliv na razlichnykh dvigateliakh.
(Tekhnika vozduzhnogo flota, 1941, v. 15, no.2, p.23-36, tables, diagrs.)

Title tr.: Comparison of anti-knock qualities of aviation fuels in
various engines.

TL504. T4 1941

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
Congress, 1955.

MASLENNIKOV, M.M., professor; RAPIORT, M.S., dotsent; RODZEVICH, S.S.,
REKHTOR, VARIONOV, G.Ye., tekhnicheskiy redaktor.

[Aviation engines using light fuel] Aviatsionnye dvigateli legkogo
topliva; obshchii kurs. Moskva, Glavnaya red. aviatsionnoi lit-rv,
1946. 406 p. Vol.2. [Design and calculation of strength] Konstruk-
tsiya i raschet na prochnost'.
(MIRA 8:5)
(Airplanes--Engines)

MASLENNIKOV, M.M.; RAPIORT, M.S.

[Airplane reciprocating motors] Aviatsionnye porshnevye dvigateli. Moskva,
Gos. izd-vo obor. promyshl., 1951. 847 p. (MILIA 6:8)

(Airplanes--Motors)

MASLENNIKOV, M. M.

The Committee on Scientific Awards (of the Council of Ministers USSR) in the field of science and inventions announces that the following scientific works, popular science books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovietaviazdat, Moscow, No. 124, 20 Feb. 1953)

Name	Title of work	Institution
Maslennikov, M. M.	"Piston Aviation Engines"	Moscow Institute of Aviation Technology
Rapiort, M. S.		

~~MASLENNIKOV~~

MASLENNIKOV, M.M.

INOZETSEV, Nikolay Viktorovich; SOKOLOV, A.I., inzhener, redaktor; BOGO-MOLOV, M.F., redaktor; KOTLYAR, Ya.M., kandidat tekhnicheskikh nauk, redaktor; MASLENNIKOV, M.M., laureat Stalinskoy premii, professor, doktor tekhnicheskikh nauk, retsenzent; GLADIKH, N.N., tekhnicheskiy redaktor.

[Gas turbine aviation engines; theory and practical operation]
Aviatsionnye gasoturbinnye dvigateli; teoriia i rabochii protsess.
Moskva, Gos.izd-vo obor. promysh., 1955. 352 p. (MLRA 9:1)
(Airplanes--Turbojet engines)

MASLENNIKOV, M. M.

AID P - 1833

Subject : USSR/Engineering

Card 1/2 Pub. 110-a - 10/16

Authors : Maslenikov, M. M., Doc. of Tech. Sci., Prof., and
Shal'man, Yu. I., Eng.

Title : Influence of fuel mixture turbulence on flame speed
in a spark-ignition internal-combustion engine

Periodical : Teploenergetika, 3, 37-44, Mr 1955

Abstract : The authors describe an experimental analysis of the
influence of air flow within the cylinder of a
single-cylinder test-engine. The program of
research included investigations of the effects of
air flow on the fuel spray and on the flame speed.
The increase in flame speed was attributed to the
increased turbulence of the charge. Nine diagrams,
5 references (4 Russian) (1939-1953).